PATENT COOPERATION TREATY

RECEIVED

rom the INTERNATIONAL SEARCHING AUTHORITY			
To: LISA A. HAILE	PCT JUL 3 0 2001		
GRAY CARY WARE & FREIDENRICH LLP 4365 EXECUTIVE DRIVE	NOTIFICATION OF TRANSMERTANCORY/GT.PATE THE INTERNATIONAL SEARCH REPORT		
SUITE 1600 SAN DIEGO, CA 92121-2189	OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of Mailing		
	(day/month/year) 27 JUL 2001		
Applicant's or agent's file reference SCRIP1200WO	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No.	International filing date (day/month/year)		
PCT/US01/03758	05 February 2001 (05.02.2001)		
Applicant THE SCRIPPS RESEARCH INSTITUTE			
The applicant is hereby notified that the international search Fiting of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	ns of the international application (see Rule 46):		
When? The time limit for filing such amendments is non international search report; however, for more de	maily 2 months from the date of transmittal of the etails, see the notes on the accompany sheet.		
Where? Directly to the International Bureau of WIPO 34, chemm des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	5		
For more detailed instructions, see the notes on	the accompanying sheet.		
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect is transmitted herewith.	report will be established and that the declaration under		
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision thereon has been applicant's request to forward the texts of both the pro-	transmitted to the International Bureau together with the otest and the decision thereon to the designated Offices.		
no decision has been made yet on the protest; the appl	ticant will be notified as soon as a decision is made.		
4. Further action(s): The applicant is reminded of the following:			
Shortly after 18 months from the priority date, the international appl If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided is completion of the technical preparations for international publica	in rules 90 bis 1 and 90 bis 3, respectively, before the		
Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 months.	l preliminary examination must be filed if the applicant nths from the priority date (in some Offices even later).		
Within 20 months from the priority date, the applicant must perform before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	demand or in a later election within 19 months from the		
Name and mailing address of the ISA/US	Authorized officer Sella Cella		
Commissioner of Patents and Trademarks Box PCT	BRIDGET E. BUNNER		
Washington, D.C. 20231 Facsimile No. (703)305-3230	Telephone No. (703) 308-0196		
Tacsmine 110. (100)000 0200			

Form PCT/ISA/220 (July 1998)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's SCRIP1200	or agent's file reference WO	FOR FURTHER ACTION	(Form PC below.	ation of Transmittal of International Search Report T/ISA/220) as well as, where applicable, item 5			
International PCT/US01	al application No. /03758	International filing date (day/mor 05 February 2001 (05.02.2001)	th/year)	(Earliest) Priority Date (day/month/year) 04 February 2000 (04.02.2000)			
Applicant THE SCRIPPS RESEARCH INSTITUTE							
applicant a	according to Article 18. A co	opy is being transmitted to the Int	ernational				
 Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 							
ъ.	Authority (Rule 23.1(b)). With regard to any nucleotid			ne international application furnished to this			
	contained in the internation	nal application in written form.					
	J	rnational application in computer re	adable for	m.			
	furnished subsequently to this Authority in written form.						
		this Authority in computer readable					
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
	the statement that the infor been furnished.	rmation recorded in computer reada	ble form is	s identical to the written sequence listing has			
2.	Certain claims were foun	d unsearchable (See Box I).					
3.	Unity of invention is lack	ing (See Box II).					
4. With	regard to the title,						
	the text is approved as sub-						
	the text has been established	ed by this Authority to read as follo	ws:				
5. With	regard to the abstract,						
	the text is approved as sub						
				ty as it appears in Box III. The applicant rch report, submit comments to this			
6. The	figure of the drawings to be p	ublished with the abstract is Figure	No				
	as suggested by the applica	ant.		None of the figures			
	because the applicant faile	d to suggest a figure.					
	because this figure better of	characterizes the invention.					

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International	application	No.

PCT/US01/03758

Box I Observati ns where certain claims were found unsearchable (C ntinuati n f Item 1 of first sheet)				
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
3. Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
B x II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet				
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-8 and 19-21				
Remark on Protest The additional search fees were accompanied by the applicant's protest.				
No protest accompanied the payment of additional search fees.				

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/03758

	SIFICATION OF SUBJECT MATTER : A61K 38/00, 38/43, 39/00; C07K 2/00					
IPC(7) US CL	: 424/ 94.1, 198.1; 514/2; 530/300, 350					
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELI	DS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.:						
0.0.						
Dogumentatio	on searched other than minimum documentation to the	extent that such documents are included	in the fields searched			
Documentation	on sentence outer with infinite and the sentence outer with the sentence outer with infinite and the sentence outer with the sentence oute					
	ta base consulted during the international search (namontinuation Sheet	ne of data base and, where practicable, s	earch terms used)			
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.			
X, P	SHIBATA et al. Activated Protein C Protects in a l	Murine Model of Ischemic Stroke.	1-4			
·	Soc. Neurosci. Abtracts. November 2000, Vol 26.N abstract.	Io. 1-2, No. 184.19, see entire				
Y	US 5,084,274 A (GRIFFIN et al) 28 January 1992 (28.01.1992), see columns 3-8.	1-5, 19			
Y	MACKO et al. Brain-Specific Protein C Activation Humans. Stroke. March 1999, Vol 30, pages 542-5	1-5, 19				
Y, P	US 6,037,322 A (GRINNELL et al) 14 March 2000	1-5, 19				
A	SHIBATA et al. Anti-Inflammatory, Antithrombot Activated Protein C in a Murine Model of Focal Isc 2001, Vol 103, pages 1799-1805, see entire documents	1-4				
			L			
	r documents are listed in the continuation of Box C.	See patent family annex.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Special categories of cited documents:	"T" later document published after the in priority date and not in conflict with	the application but cited to			
	at defining the general state of the art which is not considered to rticular relevance	understand the principle or theory u	nderlying the invention			
_	pplication or patent published on or after the international filing	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone				
"L" documer	nt which may throw doubts on priority claim(s) or which is cited lish the publication date of another citation or other special reason lifted)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such				
"O" documen	nt referring to an oral disclosure, use, exhibition or other means	combination being obvious to a pers				
	"&" document member of the same patent family					
Date of the	date claimed actual completion of the international search	Date of mailing of the international sea	rch report			
 19 June 200	1 (19.06.2001)	27 JUL 2001,				
	nailing address of the ISA/US	Authorized officer	Collen			
Commissioner of Patents and Trademarks						
Washington, D.C. 20231						
Facsimile N	Facsimile No. (703)305-3230 Telephone No. (703) 308-0196					



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/03758

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

- I. Claims 1-8 and 19-21, in part, drawn to a method of protecting neuronal cells from cell death in a subject having a neuropathological disorder, comprising administering a neuroprotective amount of activated protein C.
- II. Claims 9-15 and 19-21, in part, drawn to a method for reducing inflammation in a subject having or at risk of having a neuorpathological disorder, comprising adminstering an anti-inflammatory effective amount of activated protein C.
- III. Claims 16-21, in part, drawn to a method of reducing inflammation in a subject having or at risk of having inflammatory vascular disease comprising administering an anti-inflammatory effective amount of protein C.

The inventions listed as Groups I, II, and III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Groups I-III claim different methods. For example, Group I recites the special technical feature of protection of neuronal cells from cell death and administration of a neuroprotective agent which is not required by the methods of Groups II-III. Group II recites the special technical feature of reduction of inflammation associated with a neuropathological disorder which is not required by the methods of Groups I and III. Group III recites the special technical feature of reduction of inflammation associated with inflammatory vascular disease and administration of an anticoagulant or anti-platelet agent which is not required by the methods of Groups I-II.

Continuation of B. FIELDS SEARCHED Item 3:

EAST, DIALOG, MEDLINE

search terms: inventors' names, activated protein C, APC, stroke, co-factors, protein S, N-methyl-D-aspartate, neuro, neuronal cells

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent-Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter IL.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

NOTES TO FORM PCT/ISA/220 (continued)

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- Where originally there were 15 claims and after amendment of all claims there are 11]:
 Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:

"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

The statement should be brief, it should not exceed 500 words if in English or if translated into English.

It should not be confounded with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It should not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

In what language?

The amendments must be made in the language in which the international application is published. The letter and any statement accompanying the amendments must be in the same language as the international application if that language is English or French; otherwise, it must be in English or French, at the choice of the applicant.

Consequence if a demand for international preliminary examination has already been filed?

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase?

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.